

AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WASTEWATER MANAGEMENT DIVISION
103 SOUTH MAIN STREET
WATERBURY, VERMONT 05671-0405

FACT SHEET

November 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT TO DISCHARGE TO WATERS OF THE UNITED STATES

FILE NO.: 01-11

PROJECT ID NO.: RU96-0029

NPDES NO: VT0000990

PERMIT NO.: 3-0349

NAME AND ADDRESS OF APPLICANT:

OMYA, Inc.
61 Main Street
Proctor, VT 05765

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

"Middlebury Quarry"
1975 Route 7 South
Middlebury, VT

RECEIVING WATERS AND CLASSIFICATION: Foster Brook and Muddy Brook, Class B. Class B waters are suitable for bathing and recreation; irrigation and agricultural uses; good fish habitat; good aesthetic value; acceptable of public water supply with filtration and disinfection.

I. Proposed Action, Type of Facility, and Discharge Location

The above named applicant has applied to the Vermont Department of Environmental Conservation for a renewal of a discharge permit to discharge into the designated receiving water. The discharge is from the Middlebury Quarry, Middlebury, VT to Foster Brook and Muddy Brook. The facility is a quarry operation with dust control.

II. Description of Discharge

This permit authorizes the discharge of a commingled wastewater consisting of quarry dewatering water, quarry process water from a dust control and stormwater runoff. A quantitative description of the discharge in terms of significant effluent parameters is presented in section IV. below.

III. Limitations and Conditions

The effluent limitations of the permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the permit:

Effluent Limitations: Page 2

Monitoring Requirements: Page 2

IV. Permit Basis and Explanation of Effluent Limitation Derivation

History & Summary

OMYA, Inc owns and operates the “Middlebury Quarry” in Middlebury, VT. The quarry process consists of the extraction of marble for a variety of uses in OMYA’s production facility. Several sources of wastewater are generated on the site and commingle in the collection and treatment system prior to discharge. Specifically:

Quarry Dewatering Water

Stormwater and groundwater seepage must be removed from the quarry to allow for the removal of rock.

Quarry Operations Waste water

Water is used for various purposes, including dust suppression for transportation and drilling activities.

Stormwater Runoff

Stormwater generated on the site from haul roads, storage piles, buildings, etc is conveyed via swales, culverts, and grading back into the quarry.

The Agency has determined that the commingled discharges from the quarrying and stone crushing operations are subject to 40 CFR Part 436, Subpart B – Crushed Stone Subcategory. Subpart B defines process generated wastewater as follows:

“(e) The term “process generated waste water” shall mean any waste water used in the slurry transport of mined material, air emissions control, or processing exclusive of mining. The term shall also include any other water which becomes commingled with such waste water in a pit, pond, lagoon, mine, or other facility used for treatment of such waste water.”

Based on this definition the Agency has deemed this wastewater as “process generated waste water”. Since the quarry dewatering water and the site stormwater runoff commingle with the water from dust control in the treatment facility (Sedimentation Sump) the entire commingled discharge from the Sedimentation Sump is defined as process wastewater and subject to the terms and condition of this permit.

Having completed its review of the application, the Department has made a determination to issue a discharge permit for this discharge. Following is a discussion of the specific factors considered in the renewal of this permit.

Effluent Limitations

Water is discharged from the quarry at two different locations. Specifically:

S/N 001: Water from the southern end of the quarry is collected in a sedimentation sump, then pumped from the quarry and flows through a series of swales and is discharged into Foster Brook.

S/N 002: Water from the northern end of the quarry is collected in a sedimentation sump then pumped from the quarry and flows through series of swales and is discharged into Muddy Brook.

Flow

The flow limitation is 2.8 mgd, maximum day. This limitation applies to the combined discharge from S/N 001 and S/N 002 and is unchanged from the previous permit. Flow monitoring is required daily. The discharge from this facility is variable and depends on the operation of the quarry, rainfall, and groundwater seepage.

Turbidity

The permit contains a turbidity limitation of 10 N.T.U. This limitation applies to both discharge points. This limitation is based on Section 3-01.B.1 of the Vermont Water Quality Standards. and is unchanged from the previous permit. Turbidity sampling is required once per month.

Total Suspended Solids (TSS)

The permit contains a TSS limitation of 10 mg/l. This limitation applies to both discharge points. This limitation is based on the best professional judgment of the Agency regarding the proper operation of this type of treatment system and is unchanged from the previous permit. TSS sampling is required once per month.

pH

A pH limitation has been included in this permit. The proposed pH limitation is 6.5 to 8.5 SU. and is based on Section 3-01.B.9 of the Vermont Water Quality Standards. pH sampling will be required once per month.

Other Permit Conditions

Since heavy metals are occasionally associated with rock formations in the state, Condition A.3. requires the permittee to conduct a total metals (antimony, arsenic, cadmium, chromium, copper, iron, lead, nickel, selenium, silver, and zinc) analysis of each discharge point by June 30, 2008.

Special Condition A.4.e. requires the permittee to immediately implement a spill prevention and control plan and take all reasonable steps to prevent any equipment spills or leaks from entering the wastewater treatment system.

Special Condition A.4.f. prohibits this discharge from causing or contributing to violations of water quality standards.

VI. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from October 23, 2006 through November 22, 2006, during that time interested persons may submit their written views on the draft permit. All written comments will be retained by the Department and considered in the formulation of the final determination to issue, deny or modify the draft permit. The period of comment may be extended at the discretion of the Department.

Written comments should be sent to:

Vermont Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division - Sewing Building
103 South Main Street
Waterbury, VT 05671-0405

Comments may also be faxed to: 802-241-2596.

Any interested person or groups of persons may request or petition for a public hearing with respect to this draft permit. Any such request or petition for a public hearing shall be filed within the public comment period described above and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

The Department will hold a hearing if there is significant public interest in holding such a hearing. Any public hearing brought in response to such a request or petition will be held in the geographical area of the draft discharge or other appropriate area, at the discretion of the Department and may, as appropriate, consider related groups of draft permits. Any person may submit oral or written statements and data concerning the draft permit at the public hearing. The Department may establish reasonable limits on the time allowed for oral statements and may require the submission of statements in writing. All statements, comments, and data presented at the public hearing will be retained by the Department and considered in the formulation of the final determination to issue, deny, or modify the draft permit.

The complete application, draft permit, and other information are on file and may be inspected at the VTDEC, Wastewater Management Division, Waterbury Office. Copies will be made at a cost based on the previous Secretary of State Official Fee Schedule for Copying Public Records from 8:00 am to 4:30 pm, Monday through Friday.